Layer (type)	Output Shape	Param #	
input_1 (InputLayer)	(None, 1)	0	
lambda_1 (Lambda)	(None, 512)	0	
dense_1 (Dense)	(None, 128)	65664	
dropout_1 (Dropout)	(None, 128)	0	
dense_2 (Dense)	(None, 1)	129	
Total parame: 6E 702			

Total params: 65,793 Trainable params: 65,793 Non-trainable params: 0

Train on 400000 samples, validate on 100000 samples Epoch 1/50 Epoch 2/50 Epoch 3/50 Epoch 4/50 40000/40000 [======== ========] - 766s 2ms/step - loss: 0.2352 - acc: 0.9033 - val loss: 0.2242 - val acc: 0.9091 Epoch 5/50 Epoch 6/50 Epoch 7/50 400000/400000 [=========== =======] - 761s 2ms/step - loss: 0.1815 - acc: 0.9274 - val_loss: 0.1650 - val_acc: 0.9373 Epoch 8/50 400000/400000 [============ =======] - 761s 2ms/step - loss: 0.1672 - acc: 0.9340 - val_loss: 0.1493 - val_acc: 0.9444 Epoch 9/50 400000/400000 [== =======] - 764s 2ms/step - loss: 0.1539 - acc: 0.9396 - val_loss: 0.1371 - val_acc: 0.9485 Fnoch 10/50 400000/400000 [========= ========] - 766s 2ms/step - loss: 0.1427 - acc: 0.9444 - val_loss: 0.1253 - val_acc: 0.9542 Epoch 11/50 400000/400000 [== =======] - 761s 2ms/step - loss: 0.1315 - acc: 0.9489 - val_loss: 0.1148 - val_acc: 0.9582 Epoch 12/50 Epoch 13/50 Epoch 14/50 Epoch 15/50 400000/400000 [= ======] - 767s 2ms/step - loss: 0.1010 - acc: 0.9613 - val_loss: 0.0759 - val_acc: 0.9756 Epoch 16/50 Epoch 17/50 400000/400000 [== =======] - 759s 2ms/step - loss: 0.0898 - acc: 0.9662 - val loss: 0.0652 - val acc: 0.9791 Epoch 18/50 400000/400000 [== ========] - 761s 2ms/step - loss: 0.0851 - acc: 0.9677 - val_loss: 0.0590 - val_acc: 0.9817 Epoch 19/50 400000/400000 [= ========] - 764s 2ms/step - loss: 0.0806 - acc: 0.9697 - val_loss: 0.0601 - val_acc: 0.9817 Fnoch 20/50 400000/400000 [== =======] - 766s 2ms/step - loss: 0.0770 - acc: 0.9711 - val_loss: 0.0538 - val_acc: 0.9838 Epoch 21/50 400000/400000 [== ========= - 761s 2ms/step - loss: 0.0729 - acc: 0.9728 - val_loss: 0.0508 - val_acc: 0.9844 Epoch 22/50 400000/400000 Γ===== =========] - 770s 2ms/step - loss: 0.0695 - acc: 0.9741 - val_loss: 0.0452 - val_acc: 0.9868 Epoch 23/50 Epoch 24/50 Epoch 25/50 Epoch 26/50 Epoch 27/50

400000/400000 [================================
Epoch 28/50
400000/400000 [================================
Epoch 29/50
40000/400000 [================================
40000/40000 [=================================
Epoch 31/50
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Epoch 32/50
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Epoch 47/50
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Epoch 48/50
40000/40000 [=================================
Epoch 49/50
400000/400000 [================================
Epoch 50/50
40000/400000 [================================
50000/50000 [=================================

Test score: 0.011744193750852719 Test accuracy: 0.99692

